Form PTO-1449 (Modified)

INFORMATION DISCLOSURE STATEMENT BY APPLICANT
(Use several sheets if necessary)

Atty. Docket No. 1789-05303	Serial No. 09/912,923
Applicant James L. Tour	
Filing Date July 25, 2001	Group ~~2818~~ 1631

REFERENCE DESIGNATION U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE IF APPROPRIATE
AM	AA	4,728,672	03/01/88	*Yoshinari et al.*	518	717	
	AB	5,126,377	06/30/92	*Bessell*	518	714	
	AC	5,475,341	12/12/95	*Reed*	327	566	06/01/92
	AD	5,589,692	12/31/96	*Reed*	257	23	04/11/95
	AC	6,128,214	10/03/00	*Kuckes et al.*	365	151	03/29/99
	AD	6,198,655	03/06/01	*Heath et al.*	365	151	12/10/99
	AD	6,259,277	07/10/01	*Tour et al.*	326	136	07/26/99

FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	Translation YES	Translation NO

OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)

AM	AE	Online publication of Science 285, 391-394 (1999); Retrieved 06/01/01
	AF	Online publication of Scientific American 282, 86-93 (June 2000); Retrieved 05/21/01
	AG	Preprint of Proc. IEEE; 865, 541-557 (1997); *A Device Architecture for Computing with Quantum Dots*
	AH	Preprint of Lecture Notes in Computer Science 1663, pp. 217-218 (1999); *"Go With the Winners" Algorithm*
	AI	Preprint of Applied Physics Letters 77, 1224-1226 (Aug. 21, 2000); *Room-Temperature Negative Differential Resistance in Nanoscale Molecular Junctions*
	AJ	Smet, Jurgen H., et al; *Peak-to-Valley Current Ratios as High as 50:1 at Room Temperature in Pseudomorphic $In_{0.53}GA_{0.47}As/AlAs/InAs$ Resonant Tunneling Diodes*;American Institute of Physics, March 1, 1992; (pp. 2475-2477)
	AK	Dunbar, T.D., et al; *Combined Scanning Tunneling Microscopy and Infrared Spectroscopic Characterization of Mixed Surface Assemblies of Linear Conjugated Guest Molecules in Host Alkanethiolate Monolayers on Gold*; J. Phys. Chem. B 2000; (pp. 4880-4893)
	~~AL~~	~~Chopard, B. et al; *Cellular Automata Modeling of Physical Systems*; Cambridge University Press (undated); (p. 7)~~
AM	AM	Toffoli, T.; *Cellular Automata as an Alternative to (Rather Than An Approximation of) Differential Equations in Modeling Physics*; North-Holland Physics Publishing Division; 1984; (pp. 1)
	AN	Gutowitz, H. A.; *Cellular Automata*; MIT/North-Holland; 1990; (pp. 4)
	AO	Herman, G. T., et al; *Discrete Tomography*; Birkhäuser 1999; (pp. 5)
	AP	Goldberg, D. E.; *Genetic Algorithms in Search, Optimization, and Machine Learning*; Addison-Wesley; reprint March 1997; (pp. 2)
	~~AQ~~	~~Pham, D. T., et al; *Intelligent Optimization Techniques*; Springer-Verlag Berlin Heidelberg New York; (undated); (pp. 8)~~
AM	AR	Nelder, J. A., et al; *A Simplex Method for Function Minimization*; Computer Journal 7, 308-313; 1965;
AM	AS	Ackley, D. H.; *A Connectionist Machine for Genetic Hillclimbing*; Kluwer Academic Publishers 1987; (pp. 110)

No date given.

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AM	AT	Goldberg, D. E.; *A Gentle Introduction to Genetic* Algorithms; from Genetic Algorithms in Search Optimization, and Machine Learning; Addison Wesley, Reading MA. 1989; (pp. 25)
	AU	Chen, J., et al.; *Large On-Off Ratios and Negative Differential Resistance in a Molecular Electronic Device*; American Assoc. for the Advancement of Science 1999, Vol. 286, (pp. 1550-1552)
	AV	Ellenbogen, J. C., et al; *Architectures for Molecular Electronic Computers*; Proc. Of IEEE; March 2000 (pp. 386-426)
	AW	Metzger, R. M., et al; *Unimolecular Electrical rectification in Hexadecylquinolinium Tricyanoquinodimethanide*; J. Am. Chem. Soc. 1997, 119, (pp. 10455-10466)
	AX	Donhauser, Z. J., et al; *Conductance Switching in Single Molecules Through Conformational Changes*; Science; Vol. 292 June 22, 2001; (pp. 2303-2307)
	AY	Dirk, Shawn M., et al; *Accoutrements of a Molecular Computer: Switches, Memory Components and Alligator Clips*; Tetrahedron 57; 2001; (pp. 5109-5121)
	AZ	Chanteau, S. H., et al; *Synthesis of Potential Molecular Electronic Devices Containing Pyridine Units*; Tetrahedron Letters 42; 2001; (pp. 3057-3060)
	BA	Dubrova, E., et al; *A Comment on "Graph-Based Algorithm for Boolean Function Manipulation"*; IEEE Transactions on Computers, Vol. 49, No. 11; November 2000; (pp. 1290-1292)
	BB	Tour, James M.; *Molecular Electronics, Synthesis and Testing of Components*; Accounts of Chemical Research®; Reprinted from Vol. 33, No. 11; (pp. 791-804) 2000
	~~BC~~	~~Nackashi, David P., et al; *Molectronics: A Circuit Design Perspective*; Preprint of Proc. SPIE 4236; (pp. 80-88)~~
AM	BD	Online publication of Spice; (pp. 1-6);; Retrieved 06/01/01;

EXAMINER	Ardin Marschel	DATE CONSIDERED	8-22-03

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP '609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to the applicant.

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